DOCUMENT RESUME

ED 247 432 CE 039 501

TITLE	Use of Educational Computers. Illinois Vocational Home Economics Curriculum Development Project.
INSTITUTION	Illinois Univ., Champaign.
SPONS AGENCY	Illinois State Board of Education, Springfield. Dept. of Adult, Vocational and Technical Education.
PUB DATE	15 Jun 84
NOTE	50p.; For related documents, see CE 039 502 and CE 039 507.
PUB TYPE	Guides - Non-Classroom Use (055) -- Reference Materials - Directories/Catalogs (132)
EDRS PRICE	MF01/PC02 Plus Postage.
DESCRIPTORS	Check Lists; Classroom Techniques; *Computer Assisted Instruction; *Computer Software; Consumer Education; Daily Living Skills; Definitions; *Educational Resources; Evaluation Methods; *Home Economics; Nutrition Instruction; *Occupational Home Economics; Secondary Education; Teaching Methods
IDENTIFIERS	Computer Uses in Education

ABSTRACT

This guide is designed to help home economics teachers in Illinois to become more informed about computers and how they can be used in the classroom. The guide consists of six sections. The first two sections discuss educational uses of computers and factors to consider in selecting a computer for vocational and practical arts education. The third section is an educational software evaluation form that teachers can use to rate proposed software according to instructional purpose, contents, features, documentation, and other considerations. A glossary of computer-related terms comprises the fourth section of the guide, while sources of home economics-related computer software, such as catalogs and bibliographies, are listed in the fifth section. The final section of the guide lists computer software for home economics. For each title, information is given on distributor, program content, model of computer on which the software can be used, and the price of the program. (KC)

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Illinois Vocational Home Economics Curriculum Development Project

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CO-DIRECTORS
CHARLOTTE CARR
Illinois State University
Normal, IL 61761

MILDRED B. GRIGGS
University of Illinois
Urbana, IL 61801

VOCATIONAL HOME ECONOMICS CONSULTANTS
CATHERINE CARTER
Illinois State Board of Education
Springfield, IL 62777

BETTY J. CHURCH
Bradley University
Peoria, IL 61625

DOROTHY KEENAN
Southern Illinois University
Carbondale, IL 62901

BARBARA OWENS
Eastern Illinois University
Charleston, IL 61920

MARION SWISHER
Western Illinois University
Macomb, IL 61455

352 Education Building
University of Illinois
1310 S. Sixth Street
Champaign, Illinois 61820

June 15, 1984

TO: Home Economics Teachers

FROM: Illinois Vocational Home Economics Curriculum Development Project

DATE: Fall 1984

RE: Use of Educational Computers

The attached materials will help some of you become more informed about computers and how they can be used to assist you in the classroom.

MBG:bd
Enclosure

CE039501

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TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

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1. Educational Use of Computers

2. Factors to Consider in Selecting a Computer for Vocational and Practical Arts Education

3. Educational Software Evaluation Form

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6. Computer Software for Home Economics

Educational Use of Computers

Computers can be used for instructional and record-keeping purposes.

Instructional use of computers - Computer assisted instruction

1. Drills to faster memorization and repetition of content -- e.g., measurements, abbreviations
2. Testing for placement and grading purposes
    a. Multiple-choice items
    b. True-false items
    c. Matching items
    d. Short answer/fill in the blank
3. Student directed instruction - review of content previously taught, enrichment for students needing additional help
4. Direct teaching - discovery, application and synthesis of content -- e.g., dietary analysis, cost of loans
5. Individualized instruction

Record-keeping capabilities of computers

1. Inventory of supplies, books, equipment, facilities
2. Record of service contracts on equipment and services performed
3. Bookkeeping for department budget
4. Record of student tests, laboratory and homework scores/ computing student grades
5. Lists and mailing labs for correspondence with parents, publishing companies, businesses and industries
6. Maintain address file of former students for follow-up studies
7. Maintain a file of present and potential Advisory Committee members
8. Record minutes of meetings
9. Maintain HERO program records/work experience sites, evaluated information, training plans, etc.
10. Test files

FACTORS TO CONSIDER IN SELECTING A COMPUTER
FOR VOCATIONAL AND PRACTICAL ARTS EDUCATION

1. Will you be doing word processing? If so, choose a computer which will display 80 characters per line, e.g. the Heath/Zenith Stand-alone computer. You can get by with 64 characters per line, e.g. the Radio Shack Model III. Do not select a computer with 40 characters per line, e.g. the Apple II, unless you are prepared to spend more money to increase the line width. Few printed documents have 40 or fewer characters in each line, and if your computer won't display a full line, it is difficult to read. All of the computers listed above can display capital and lower case letters. This capability is also necessary for useful word processing.

2. Do you want color? Color costs money, and good color costs much money. The Apple II and the Radio Shack Color Computer are examples of relatively inexpensive computers with color capability.

3. Do you want to display graphics on the screen? The coarser the graphics, the lower the price. By using a plotter, instead of displaying the graphics on the screen, you can get fine graphics, but you will lose speed. The Apple II has reasonably good graphics, the Commodore Pet has less useful graphics, and the Radio Shack Model III graphics are poorer yet.

4. What is the availability and cost of service? The greatest number of service centers, the quickest time for repair and the lowest cost of service seem to be associated with Radio Shack. All of the computers mentioned this far seem to require service infrequently, though the earlier models of most of them had problems. New computers, as with any other new, complex product, frequently have teething problems.

5. Do you need to connect several computers together? If so, how easily and inexpensively can this be done? Radio Shack computers need only simple wiring to connect as many as 50 computers together on the same site. Other computers cost much more to interconnect. All computers listed above can communicate over telephone lines, though some of them require additional equipment to do this.

6. What is the availability of programs which might be useful to me? Radio Shack and Apple have more programs available than any other inexpensive computers. You will need to check to see what is available for your field. The Illinois Vocational Curriculum Center, Springfield, Illinois has collected a wide collection of programs for Apple, Radio Shack and Commodore. Some are available for loan. Microcomputer programs for home economics developed under the auspices of ISBE/DAVTE are available for purchase from the Curriculum Publications Clearinghouse, Western Illinois University, Macomb, Illinois 61455, 1-800-322-3705 in Illinois, 309-298-1917 outside Illinois).

7. What computers are owned by my friends and other people with whom I will want to exchange programs? It is easy to exchange cassettes and diskettes from identical computers. It is more difficult to exchange from one model to another made by the same manufacturer. It is still more difficult to exchange programs among computers made by different manufacturers. This difficulty is eased somewhat if the different computers use a similar operating system.

Suggested Priority Order for Acquiring Equipment

1. Computer, keyboard, and monitor (a screen which resembles a TV screen). This is the absolute minimum you will need; when you turn off the computer, the program you have been writing will disappear. Cost $400-$1500.

2. Storage (cassette recorder or disk drive), which will enable you to save programs until you need them again, or to exchange them with friends. Cost $50-1000.

3. Printer, to list your programs and to print out computations, letters, etc. Cost $300-2000. The more nearly the print looks like an IBM Selectric, the more expensive the printer.

4. Additional memory. Cost $20-1000. This lets you write longer programs.

5. Additional storage. Cost $300-5000. This lets you save more and longer programs.

6. Plotter, digitizer, modem and other specialized equipment.

All equipment manufacturers provide a discount to educational institutions, but you may have to ask for it. Typical discounts are 20-30%.

Acquiring Software

In the long run, the cost of buying commercial software (programs which tell the computer what to do) will probably exceed the cost of the equipment (hardware). If you write your own programs, and if you are not paid for your time, the cost is quite low. Many programs are available free or on an exchange basis from other educational institutions. Computer magazines and many computer books list programs which can be copied legally. There is a temptation to copy commercial programs, but this is illegal, and copyright infringement penalties are severe.

Courseware is a specialized form of software which is designed for teaching purposes. It is also available inexpensively from other educators. Courseware from commercial sources is rarely designed for use in vocational or practical arts education, except in mathematics, typing and electronics. However, many programs which are designed for business and industry are useful in courses such as drafting, accounting, agriculture, marketing, health occupations, machine shop, and printing. If you are willing and able to revise programs to fit your own computer, you will learn much during the revision process and you will have access to much more material than if you sought only programs designed for your machine.

How Can You Learn To Use A Computer?

It is a general rule that it is very easy to learn how to use computer programs written by other people. Next most difficult is to learn how to revise existing programs to fit your needs. It is more difficult to learn

how to write programs, but even this final step is not very difficult if you are learning how to write programs of the type you are likely to be using. You can be writing simple programs after one or two weeks of instruction.

In order to write programs, you need to learn a new vocabulary (language) of about 100 words and you need to learn how your computer uses this language. All microcomputers use a language named BASIC. Many other languages are also available, but BASIC is probably the one you will want to learn first. Courses in BASIC are available from most community colleges and local computer stores.

If you can touch type you can write programs more rapidly on a computer, but "hunt and peck" methods work on a computer just as they do on a typewriter.

EDUCATIONAL SOFTWARE EVALUATION FORM

Program Title: _____ Cost: _____

Hardware or System Requirements: _____

_____

_____

Type of Media: 5" Floppy Disk
Cassette Tape

Skill/Ability/Grade Level: _____

_____

_____

Producer/Date: _____

_____

_____

Type of Program: Tutorial (Developing Concepts)
Drill and Practice
Entertainment
Other. Specify _____

Content Area: _____

_____

_____

_____

_____

PART B: INSTRUCTIONAL PURPOSE	YES	NO
1. Are instructional objectives specified?	O	O
2. Are the objectives stated clearly?	O	O
3. Do the objectives fit in with the existing educational objectives established by the teacher, school district or program?	O	O
4. Can the objectives be easily adapted for specific individualized instructional purposes?	O	O
5. Are the objectives significant or extensive enough to warrant the expenditure of funds?	O	O
6. Have the objectives been developed to meet the needs of specific student populations? If "yes," specify population: _____	O	O

PART C: CONTENTS	YES	NO
1. Is the content appropriate for meeting the specified objectives?	O	O
2. Is the content appropriate to the students' maturational level(s)?	O	O
3. Is the length of the program appropriate to the students' maturational level(s)?	O	O
4. Is the content motivating, interesting, attention-getting and enjoyable?	O	O
5. Is the content attractive, colorful, and otherwise aesthetically pleasing?	O	O
6. Does the content foster positive attitudes, values and behaviors towards others?	O	O
7. Is the content free of any race, culture or sex bias?	O	O

PART D: FEATURES	YES	NO
1. Is there a record keeping system which records students' responses?	O	O
2. Does the program provide for the assessment of and programming for instructional needs of students?	O	O
3. Does the program provide practice for remediation purposes?	O	O
4. Is the program adaptable for small groups as well as individual use?	O	O
5. Can the program be run with or without sound, depending on the requirements of the instructional setting?	O	O
6. Will the program load, boot and/or run without extensive user knowledge of the use of microcomputers?	O	O

PART E: DOCUMENTATION	YES	NO
1. Are the program authors/developers identified?	O	O
2. Are the authors respected educators?	O	O
3. Do the authors have the knowledge and expertise in the area for which the program has been developed?	O	O
4. Is there an instructional manual accompanying the program?	O	O
5. Does the manual provide information relating to:		
A. Field testing?	O	O
B. Program objectives?	O	O
C. How the program works?	O	O
D. Suggestions for helping students with the program?	O	O
E. Possible follow-up activities?	O	O

PART F: OTHER CONSIDERATIONS	YES	NO
1. Are purchasing procedures clearly stated?	O	O
2. Are all guarantees and warranties specified in writing?	O	O
3. Is the making of a backup disk permitted?	O	O
4. Are the materials of a high quality and well-labeled?	O	O
5. Is the program adequately packaged for storage and durability?	O	O

	YES	NO
8. Is this program a more effective way of presenting material than has been traditionally offered to the students?	O	O
9. Are all of the instructions accessible within the program as needed?	O	O
10. Are the program instructions easy to follow without extensive referral to the manual?	O	O
11. Is information provided on how to "escape" from the program at any time?	O	O
12. Is the vocabulary appropriate for the intended user's reading ability?	O	O

SUMMARY

OVERALL QUALITY:

- O Excellent
- O Very Good
- O Average
- O Fair
- O Poor

RECOMMENDATION:

- O Purchase immediately
- O High priority as funds become available
- O Do not purchase
- O Other. Specify _____

SIGNATURE OF EVALUATOR: _____ DATE OF REVIEW: _____

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COMPUTER GLOSSARY

BASIC Beginners All-Purpose Symbolic Instruction Code. It is an easy to learn, and easy to use language. Very popular with microcomputer users.

CAI Computer Assisted Instruction, a means to set the computer to interact as a teacher on a particular topic.

COMPUTER A general purpose machine for computing that contains a CPU, memory, i/o devices, cables, and cabinet. The machine does many other tasks otherwise done by hand.

CPU Central Processing Unit, the heart of the computer system used for setting, decoding, and executing instructions. It incorporates the control unit, the arithmetic logic unit, and related facilities.

CRT Cathode Ray Tube, a television tube used to display pictures or characters used frequently with computer terminals.

DATA Information that is read from or written into a computer system for processing.

DATA BASE Systematic way of storing data files for later processing.

DEBUGGING The means for correcting errors in computer programs.

DOS Disk Operating System, the controlling computer system that controls the disk system of the computer and sometimes other computer environmental factors.

FLOPPY DISK Mass storage device that is flexible like a soft record, yet stores a large amount of data or programs.

HARD COPY Computer output which is printed on paper.

HARDWARE The computer components including all its nuts, bolts, cable, chips, CPU, printer, disk drives, printer, etc.

KEYBOARD A collection of keys and buttons similar to a typewriter with added keys to control the functions of a terminal/or computer. Information is entered into the computer directly through a keyboard.

MEMORY The storage area in the computer for the program and data, the RAM and ROM chips.

MICROCOMPUTER Complete computer system which includes the CPU, memory, i/o interfaces, power supply, and some means to display the information on a screen.

PERIPHERAL A device that is attached to the computer such as a CRT, disk drive, or printer. It is a device that is not part of the main computer system.

PROGRAM Set of instructions that tell the computer what to do in what order. User types in the way certain things are to be done by the computer to generate the final results in "reports" or other user oriented uses.

RAM Random Access Memory. Memory that is used for programs and data. Varies per each application. Program is lost when computer power is turned off.

ROM Read Only Memory. A program that is written into memory only once at the manufacturer and cannot be changed.

SOFTWARE The computer programs that run on the computer.

Sources of Home Economics Related Computer Software

Catalogues:

1. EMC Publishing/Changing Times Education Service, 300 York Avenue, St. Paul, Minnesota 55101 (1-800-328-1452).
   Programs on nutrition, budgeting, personal finance, contemporary living and personal consumerism.

2. 83-84 Home Economics: Food and Nutrition. Learning Seed Company, 21250 Andover, Kildeer, Illinois 60047.

3. Orange Juice Software Systems, 222 S. Washington Avenue, New Richmond, Wisconsin 54017 (1-715-246-3588).
   Programs on design elements and principles, pattern selection and use, and sodium analysis. A free 10 day previewing trial on all programs.

4. Dietary Data Analysis, P.O. Box 26, Hamburg, New Jersey 07419 (1-201-764-6677).
   Programs are all on food and nutrition.

5. Clo's Line, Software for the Home and Home Economist, Volborg, Montana 59351 (1-406-786-2280).
   Programs in food, nutrition and consumer education.

6. Curriculum Publications Clearinghouse, Western Illinois University, 46 Horrabin Hall, Macomb, Illinois 61455 (1-800-322-3905 toll free in Illinois, or 1-309-298-1917 from outside Illinois).
   Available in inexpensively priced sets which include programs in interior design, nutrition, consumer education, clothing, stain removal, housing, personal budgeting, decision-making, and foods.

7. Microcomputer Educational Programs, Banana Education Software, 3400 Exel Parkway, POB 2868, Toledo, Ohio 43606.
   Programs on consumer education and home safety.

8. Telephone Computer Programs, Cooperative Extension Service, Michigan State University, East Lansing, Michigan 48824.
   Programs on nutrition, food buying and health.

9. Consumer Relations - 3286, Pillsbury Company, Pillsbury Center, Minneapolis, Minnesota 55402.

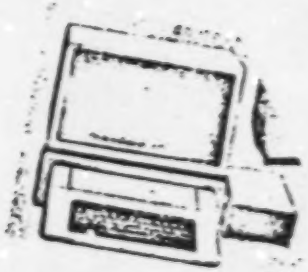
10. Personal Software, 1330 Bordeaux Drive, Sunnyvale, California 94086.
    Programs on health and drugs.

Bibliography of Home Economics Computer Programs:

1. Jeff Lake, Illinois Vocational Curriculum Center, Sangamon State University, E-22, Springfield, Illinois 62708 (217-786-6375).
   Some programs available for loan; others can be previewed at the center.

COMPUTER SOFTWARE FOR HOME ECONOMICS

Compiled by Tena Matas, MacArthur High School, Decatur, Illinois



November, 1983

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SOFTWARE FOR HOME ECONOMICS

SUBJECT AREA: ADULT LIVING

TITLE	DISTRIBUTOR	DESCRIPTION	MODEL	PRICE
Alcohol	Teck Associates P.O. Box 8732	Determines the physiological effects of alcohol on the bocy based on information supplied by the user concerning body weight, kind of alcohol, number of drinks, and hours spent drinking.	Apple	19.95
Animal Reproduction	Carolina Biological Supply Co. 2700 York Road Burlington, NC 27215	Covers development of sperm, egg, and fertilization.	Apple; 48K	28.00
Birth Control	Personal Software 1330 Bordeaux Drive Sunnyvale, California 94086	Includes an audio cassette discussion regarding conception and methods of birth control plus computer exercises consisting of questions generated from material presented.	Apple	19.95
Career Scan IV	Careers, Inc. 1211 10th Street, SW Post Office Box 135 Largo, Florida 33540	A career search program. Helps user find occupations related to school subjects, abilities, training or education, lifestyles, values, and job characteristics.	Apple; 48K	169.00
Drinking and Drugs	Personal Software 1330 Bordeaux Drive Sunnyvale, California	Program includes an audio cassette which explains the physical, mental, and emotional effects of alcohol and drugs. Student then loads the program and takes the quizzes which test on alcohol and drug knowledge.	Apple; 16K	19.95

TITLE	DISTRIBUTOR	DESCRIPTION	MODEL	PRICE
First Day on The Job	MCE, Inc. 157 S. Kalamazoo Mall Kalamazoo, MI 49007	Designed to provide information about how to prepare for and what to expect the first day on the job. The first part is instructional and the second includes a simulation using that knowledge.	Apple	44.95 17.50_backup
Forming Positive Behavior	PLATO Educational Courseware Control Data Pub. Co. P.O. Box 261127 San Diego, CA 92126	A comprehensive program presented in two segments: Recognizing Self-Defeating Behavior and Working Toward Winning Behavior. It includes such topics as taking a look at yourself, how to make choices, prices, and rewards for behavior, and getting along with others.	Apple	?
The Graduation Dilemma	Career Development Software, Inc. 207 Evergreen Drive Vancouver, WA 98661	Simulation of critical decisions confronting the student or employee.	Apple	150.00
Growing Up	Personal Software 1330 Bordeaux Drive Sunnyvale, California 94086	Concerns changes in adolescent behavior and their causes. Package includes an audio cassette which explains puberty, contraception, sex and love, the risk of pregnancy, and sexual desire. In conjunction with the audio tape is a program which generates questions concerning the above-mentioned topics.	Apple; 16K	19.95

TITLE	DISTRIBUTOR	DESCRIPTION	MODEL	PRICE
Health Awareness Game	Teaching Aids, Inc. P.O. Box 1798 Costa Mesa, CA 92626	This program includes information on coronary risk, why do you smoke, exercise and weight, life expectancy, and lifestyles. Order # HRM 511 00 MSA.	Apple; 48K	99.00
I Can--Stress Management Options	Micro Power & Light Co. 12820 Hillcrest Road Suite 224 Dallas, Texas 75230	Program promotes an awareness of the kinds of options available to all of us, as we try to better manage stress in our lives.	Apple	29.95
The Micro Art of Interviewing	Career Development Software, Inc. 207 Evergreen Drive Vancouver, WA 98661	Designed for students ready to enter job market.	Apple	150.00
Relationship Life Dynamic	Avant Garde Creations, P.O. Box 30161 Eugene, Oregon 97403	Purpose of this program is to make you aware of how well you handle your relationship with others. Program begins with a game called, "Will you get off in time?" You are riding in an elevator; to the left of the elevator are relationship problems, and to the right are solutions. The elevator goes up and down five floors. The floor you try to get off on will be the one containing the solution.	Apple; 48K	19.95
Talking About Sex	Personal Software 1330 Bordeaux Drive Sunnyvale, California 94086	Program provides information regarding myths and misconceptions concerning sex and is especially helpful to those individuals experiencing sexual problems.	Apple; Integer	19.95

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TITLE	DISTRIBUTOR	DESCRIPTION	MODEL	PRICE
The Age of Responsibility	Aquarius Publishing Co. P.O. Box 128 Indian Rocks Beach, FL 33535	Helps students explore the age of responsibility: voting, drinking, driving and many other privileges.	Apple	29.95

SOFTWARE FOR HOME ECONOMICS

SUBJECT AREA: CLOTHING AND TEXTILES

TITLE	DISTRIBUTOR	DESCRIPTION	MODEL	PRICE
Calculating Yardage for Making Curtains or Pleated Draperies	Carolyn S. Carter/ Caroline Daigle Knapp Hall, LSU Baton Rouge, LA	To help individuals purchase the correct amount of fabric.	TRS-80	?
Microcomputer Applications In Vocational Education	Western Illinois Univ. Curriculum Publications Clearinghouse Macomb, Ill 61455	This program contains an Assortment of Home Ec programs. Programs in this area include: Fiber Care Program, Clothing Figure Analysis, Stain Removal.	Apple; 48K	8.25

SUBJECT AREA: CONSUMER EDUCATION

TITLE	DISTRIBUTOR	DESCRIPTION	MODEL	PRICE
Advertising Techniques	Educational Audio Visuals, Inc. Pleasantville, NY 10570	Describes four techniques: Join the Crowd, Decide for Yourself, Remember Me and Act Now. Instruction plus examples are used. At the is a mastery quiz. Catalog #N2AD 1647	Apple; 32K	25.00
Analyzing an Ad	Teaching Aids, Inc. P. O. Box 1798 Costa Mesa, CA 92626	Explore dynamics and mechanics of advertising and learn to avoid exploitation. Order # MCE-AP2221D.	Apple; 48K	49.00 19.50 (backu
Becoming an Informed Shopper	Teaching Aids, Inc. P.O. Box 1798 Costa Mesa, CA 92626	Learn to make informed decisions about shopping. A simulation provides practice in applying these skills to furnish an apartment. Order #MCE-AP162.	Apple; 48K	49.50 19.50 (backu
Budgeting	Career Aids, Inc. 8950 Lurline Ave. Chatsworth, CA 91311	First part teaches through case study. Second part is a simulation where students work on a budget for a real-life problem. Order #CT98948S.	Apple; 48K	172.00
Budgeting	Teaching Aids, Inc. P.O. Box 1798 Costa Mesa, CA 92626	Tutorial on budgeting. Gives students practice at putting budgets together. Order #EMC-95931 for disk & EMC 96911 for backup and disk.		55.00 25.00(backup)

TITLE	DISTRIBUTOR	DESCRIPTION	MODEL	PRICE
Budgeting On Microcomputer	EMC Publishing Changing Times Educ. Service 300 York Avenue St. Paul, Minn. 55101	Teaches facts of budgeting and contains a simulation game. Order #98947F for disk or #98947B includes disk and backup disk.	Apple; 48K	98.00 144.00(disk + backup
Budgeting Simulation	Teaching Aids, Inc. P.O. Box 1798 Costa Mesa, CA 92626	While student works on an annual budget, real-life problems are presented for the student to solve. EMC-93933 for disk or EMC-96913 for disk + backup.	Apple	55.00 80.00(disk + backup
Buying Wisely	Teaching Aids, Inc. P.O. Box 1798 Costa Mesa, CA 92626	Allows students to determine items to be purchased based on individual living situations. MCE-AP161D backup and #MCE-AP161 for disk.	Apple; 48K	49.50 19.50(backup
Comparative Buying	Interpretive Education Inc. 157 S. Kalamazoo Mall P.O. Box 3176 Kalamazoo, MI49003-3176	Explains the concepts of comparative buying. Provides learner with interactive experiences in determining items to purchase.	Apple; 48K	225.00(disk+ backup
Cash Versus Credit Buying	Teaching Aids, Inc. P.O. Box 1798 Costa Mesa, CA 92626	Helps students see real cost of items bought by credit vs cash. Order #MCE-AP164 for disk and MCE-AP164D for backup.	Apple; 48K	49.50 19.50(backup
Consumer Education I Traveling and Shopping Vocabulary	Teaching Aids, Inc. Post Office Box 1798 Costa Mesa, CA 92626	2 disk program to help with vocabulary in reading and interpreting ads, labels, maps, coupons. Also helps one identify sales items and understand unit pricing.	Apple; TRS-80	79.95

TITLE	DISTRIBUTOR	DESCRIPTION	MODEL	PRICE
Comsumer Education II Banking Policies & Contracts	Teaching Aids, Inc. P.O. Box 1798 Costa Mesa, CA 92626	Contains receiving & spending, checking in & out, saving for security, income tax, insurance, real estate.	Apple & TRS-80	79.95
Consumer Series: Decision Making Consumerism & You Consumer Help Understanding Labels The Law Reading Advertisements Shopping in a Comparative Way	Career Aids, Inc. 8950 Lurline Ave. Chatsworth, CA 91311	Helps student obtain skills in each of the listed areas. Order #PREADCSS for Apple and #PRETDCSS for TRS-80.	Apple; 48K TRS-80	29.95 ea. 189.00 series
Daily Living Skills Classified Ads & Telephone Directories	Encyclopoedia Britannica Educ. Corp. 425 North Michigan Ave. Chicago, Ill 60611	Instructions on using & understanding ads & the Yellow Pages.	Apple; 48K	74.00
Daily Living Skills Prescription Medicine & Product Skills	Encyclopoedia Britannica Educ. Corp. 425 North Michigan Ave. Chicago, Illinois 60611	Deal with labels & appropriate consumer information.	Apple; 48K	74.00
Decision Making	Aquarius Publishers, Inc. P.O. Box 128 Indian Rocks Beach, FL 33535	Learn how to make rational decisions and learn how to apply the decision making system to the consumer world.	Apple	29.95
Electric Bill	Teaching Aids, Inc. P.O. Box 1798 Costa Mesa, CA 92626	Learn how bills are computed and how to read the bill. Order #HRM-534-00MSA for Apple and HRM-534-00MST3 for TRS-80	Apple; 48K TRS-80; 32K	25.00

TITLE	DISTRIBUTOR	DESCRIPTION	MODEL	PRICE
Energy Miser	McKilligan Supply Corp. 435 Main Street Johnson City, NY 13790	Complete heating/cooling analysis of home or office. Will calculate heat loss due to doors, windows, and etc. Order # E0342	Apple	29.95
Enterprise Sandwich Shops: A Marketing Simulation	Gregg/McGraw-Hill P.O. Box 996 Norcross, GA 30091	Simulation using a fictional company of sandwich shops to stimulate student interest in marketing, retailing, management, and entrepreneurship.	Apple	199.00
Financing A Car	Teaching Aids, Inc. P.O. Box 1798 Costa Mesa, CA 92626	Teaches about credit and purchasing. Order #MCE-AP231 for disk and MCE-AP231D for backup.	Apple; 48K	49.50 19.50(backup)
Heat Loss	Career Aids, Inc. 8950 Lurline Ave. Chatsworth, CA 91311	Learn to conserve energy while practicing arithmetic, measurement, estimation, geometry & problem solving. Order #SB 1089	Apple; 48K Printer necessary	39.00
Home Energy Savings	Teaching Aids, Inc. P.O. Box 1798 Costa Mesa, CA 92626	Game: Task is to make sensible investments that will conserve energy in the home. Order #HRM53200MSA for Apple and HRM53200MST3 for TRS-80.	Apple; 48K TRS-80	35.00
Income Meets Expenses	Teaching Aids, Inc. P.O. Box 1798 Costa Mesa, CA 92626	Student completes a budget. using a worksheet. Learn what to do if expenses exceed income. Order # MCE-AP110 for disk and MCE-AP110D for backup.	Apple; 48K	374.00 132.00(backup)

TITLE	DISTRIBUTOR	DESCRIPTION	MODEL	PRICE
Managing Your Time	Teaching Aids, Inc. P.O. Box 1798 Costa Mesa, CA 92626	Teaches time management. Order #MCE-AP211 for disk #MCE-AP211D for backup.	Apple; 48K	49.50 19.50(backup)
Money Decisions	Meta Technoligies Corp 26111 Brush Avenue Euclid, Ohio 44132	34 of the most frequently needed business and financial problem solvers.	Apple	199.95
Math Around the House	Queue 5 Chapel Hill Drive Fairfield, CT 06432	Apply basic skills to realistic situations such as cooking, papering, buying carpet, and etc.	Apple TRS-80	29.95
Math for Everyday Living	Educational Record Sales 157 Chambers Street New York, NY 10007	2 disks that include making change, working with sales slips, unit pricing, computing gas mileage, figuring sales tax, working with wages, earning overtime, earning with piecework, working with time, and understanding paycheck.	Apple	85.00
Micro Survival Math	Career Aids, Inc. 8950 Lurline Ave. Chatsworth, CA 91311	Gives 4 simulations--student must make judgment using math: Smart Shopper Marathon, Hot Dog Stand, Travel Agent Contest, Foreman's Assistant. Order #SB1084--Commodore SB963--Apple, SB965 TRS-80.	Apple; 32K TRS-80 Commodore 64	50.00
Microcomputer Applications in Vocational Education--Home Economics	Curriculum Publications Clearinghouse Western Illinois Univ. Macomb, Ill. 61455	Program contains programs in various areas of home economics. Included in this area are: Decision Analysis, Consumer Math I & II Home Loan Analysis, Personal Budget, Utilities.	Apple; 48K	8.25

TITLE	DISTRIBUTOR	DESCRIPTION	MODEL	PRICE
Personal Consumerism	Aquarius Publishers, Inc. P.O. Box 128 Indian Rocks Beach, FL 33535	Provides information on the following: Buying a used car, reading ads, consumerism, shopping in a comparative way, laws, consumer fraud, consumer helps, and labels. Contains 8 disks.	Apple	235.00
Personal Checking for the Microcomputer	C. W. Publications 1313 5th Avenue Sterling, IL 61081	Teaches students to maintain their checking accounts. Order #1070	Apple	45.00
Profit and Loss: A Microcomputer Simulation	McGraw-Hill P.O. Box 996 Norcross, GA. 30091	Simulation that provides introduction to economic concepts.	Apple	99.00
Personal Investing for the Microcomputer	C. W. Publications 1313 5th Avenue Sterling, IL 61081	Teaches principles of investing. Each student analyzes economic news & makes investment decisions. Order #1090.	Apple	45.00
Programs for Home	McKilligan Supply Corp. 435 Main Street Johnson City, NY 13790	A series of comprehensive programs--recipes, bill paying, filing tax records, diet planning, gas mileage, lawn and plant care, supermarket list, currency conversions, health records, inventory and more. Order #E0348.	Apple	24.95
Shopping By Mail & In Person	Teaching Aids, Inc. P. O. Box 1798 Costa Mesa, CA 92626	2 disks to help develop shopping skills. Learning about catalogs, locating items in index, paying for order, budgets, using consumer reference, reading ads and deciding what to buy. HP5619AD-Apple HP5619TD-TRS-80	Apple TRS-80	79.95

TITLE	DISTRIBUTOR	DESCRIPTION	MODEL	PRICE
Survival Mathematics	Careers, Inc. 1211 10th Street, SW P.O. Box 135 Largo, Florida 33540	Daily skills are introduced and practiced. 3 discs include: Real cost, Understanding checkbooks, Fractions percents, and decimals. Series ADS314--Apple, TDS 314 TRS-80.	Apple TRS-80	85.00 Series 29.95 Ea.
Understanding Sales Buying	Teaching Aids, Inc. P.O. Box 1798 Costa Mesa, CA 92626	Discover how to tell a real sale and determine how much they save. Order #MCE-AP163 for disk and MCE-APa63D for backup.	Apple; 48K	49.50 19.50(backup)
Work Series	Aquarius Publishers, Inc. P.O. Box 128 Indian Rocks Beach, FL 33535	6 disks that include: How to get and hold a job, the job and you, self-concept and your work part-time jobs, new on the job, interviewing.	Apple	175.00 series 29.95 ea
You Can Bank On It	Teaching Aids, Inc. P.O. Box 1798 Costa Mesa, CA 92626	Shows how to open accounts, execute paperwork, maintain accounts, practice in check writing and keeping account balanced. Order # MCE-AP-120. 6 disks.	Apple, 48K	313.50

SOFTWARE FOR HOME ECONOMICS

SUBJECT AREA: FOODS AND NUTRITION

TITLE	DISTRIBUTOR	DESCRIPTION	COMPUTER MODEL	PRICE
Apple Menu Cookbook	Progressive Software P.O. Box 237 Plymouth Meeting, PA 19462	Allows storage and retrieval of recipes.	Apple; 16K	19.95
Computing Your Way to Better Nutrition	Career Aids, Inc. 8950 Lurline Ave, Dept HE Chatsworth, CA 91311	Program gives information on four topics: Cereals-compares sugar content; Chemicals-lesson & quiz; Fast foods-nutrients on graph; Vitamins-lesson & quiz. Order #SB1035VM--Disk w/backup and guide.	Apple; 32K	35.00
Dietcalc	Savant Software PO Box 42888, Suite 164 Houston, Texas 77042	Program helps with diet planning. It allows a person to enter information about himself and his diet. The program will then calculate number of calories necessary to maintain weight or lose weight. It also personalizes dietary needs for that person.	Apple	16.95
Diet Analysis	Apple Computer Inc. 10260 Bandley Drive Cupertino, Calif 95014	Allows one to analyze ones diet for carbohydrates, calories, protein, vitamins, minerals, saturated fats, fiber and etc. This can be done daily, weekly or monthly. Package includes disk w/backup, manual, and diet analysis composition disk.	Apple; 48K	45.00

TITLE	DISTRIBUTOR	DESCRIPTION	MODEL	PRICE
Dietician	Dietware P.O. Box 503 Spring, Texas 77373	Allows one to make menues with specified content of calories, carbohydrates, proteins, fats, cholesterol, and sodium.	Apple	59.95
Digestion	J&S Software 140 Reid Avenue Port Washington, N.Y. 11050	Questions dealing with nutrients, digestion in simple organisms and in man.	48K	25.50
Dinner on a Disk	The Computerized Shopper 683 Towle Way Palo Alto, Calif 94306	Automated cookbook	Apple II	14.95
Eat Smart	The Pillsbury Company 3286 Pillsbury Center Minneapolis, Minn. 55402	Analyzes diet for one day. Adjusts RDA's for age, sex, pregnancy, and nursing.	Apple II, 48K	19.75
Elementary Volume 13--Nutrition (MECC)	Scholastic Inc. 904 Sylvan Avenue Englewood Cliffs, New Jersey 07632	Contains three programs: 1) Calorie bank--animation demonstrating need to choose foods wisely. 2) Nutrients--Analyzes diet for a day. 3)Calories--Compares caloric intake with exercise to indicate weight gain or loss.	Apple; 32K	39.95
Fast Food Micro-Guide	Learning Seed 21250 Andover Kildeer, Il 60047	Student selects meal from menu of well known restaurants. Computer prints out nutritional analysis.	Apple II TRS-80	36.00

TITLE	DISTRIBUTOR	DESCRIPTION	MODEL	PRICE
Feeling Great	Career Aids, Inc. 8950 Lurline Ave. Dept HE Chatsworth, CA 91311	Designed to raise health consciousness of students. Color graphics. Information includes energy needs, heart attacks, nutrients, and toxicity. 1 disk w/backup and guide.	Apple; 32K	35.00
Health-Aide	Knossos, Inc. 422 Redwood Avenue Corte Madera, Calif. 94925	Comprehensive analysis of ones health. Analyzes diet and helps menu planning. Allows storage of 10 items of personal information such as blood pressure.	Apple II; 48K	79.00
Labels & More Labels	Teaching Aids, Inc. Post Office Box 1798 Costa Mesa, CA 92626	Information about unit and label prices, nutritional information, poison warnings, directions for machines, analyzing instructions & etc. Order # for Apple HP-5618AD, TRS-80 HP-5618TD	Apple II TRS-80	79.95
Menu II	C & H Video 110 West Caracas Avenue Hershey, PA. 17033	Lets you store your favor- recipes, write daily menus for up to a two-week period, and generate shopping lists.	Apple II; 48K	39.95
Menu Planner	Progressive Software P.O. Box 273 Plymouth Meeting, PA 19462	Has many types of dishes, counts calories for each entry.	Apple; 16K	19.95

TITLE	DISTRIBUTOR	DESCRIPTION	MODEL	PRICE
Micro Cookbook	Career Aids, Inc. 8950 Lurline Avenue Chatsworth, CA 91311	Cookbook allows you to add or delete recipes. Tell it what foods you have and what you like, and it will select recipes.	Apple; 48K	40.00
Microcomputer Applications in Vocational Education	Curriculum Publications Clearinghouse Western Illinois Univ. Macomb, Ill 61455	An assortment of home ec programs. Programs in foods are Pounds Away, Nutrition Analysis, Measurement Conversion, and Recipe Analysis.	Apple; 48K	8.25
Nutri-Calc	PCD Systems, Inc. P.O. Box 143 Penn Yan, New York 14527	Designed to meet the needs of the dietician. Contains information on 730 common foods. Allows one to add information or combine foods to make calculations less complex.	Apple	350.00
Nutrition	Career Aids, Inc. 8950 Lurline Ave. Chatsworth, CA 91311	There are two parts to this program: 1) teaches about food groups, RDA, nutrition, calorie intake, labels. 2) allows students to construct menu.	Apple; 48K	172.00
Nutrition--A Balanced Diet	Educational Audio Visual Inc. Pleasantville, NY 10570	Analyzes various daily diets and compares them to RDA's.	Apple TRS-80	31.50 33.50
Nutrition Simulation	Computer Courseware Services 300 York Avenue St. Paul, Minn 55101	This simulation allows students to construct a menu for several days. The computer will rate the menu according to nutritional facts.	Apple II	55.00

TITLE	DISTRIBUTOR	DESCRIPTION	MODEL	PRICE
Nutritionist	N-Squared Computing Analytic Software 5318 Forest Ridge Road Silverton, Oregon 97381	Analyzes diet and helps plan diets to meet individual needs	Apple	145.00
The Pizza Program	Gourmet Software 671 Eden Ave San Jose, Calif 95117	You select foods you enjoy from pre-selected food groups, indicating how often you like to eat them. The program plans menus for you and will also print a shopping list putting foods in order for your favorite store.	Apple	36.50
Recipe File	Career Aids, Inc. 8950 Lurline Ave. Chatsworth, CA 91311	Allows you to store recipes and will convert recipes to feed larger or smaller groups. Catalog # MWRFA--disk w/backup and guide.	AppleII; 32K	29.95
Snackmaster--A Nibbler's Dilemma	Learning Seed 21250 Andover Kildeer, IL 60047	Game in which player selects between-meal treats. Ten selections that total less than 1200 calories is a winning play.	Apple II TRS-80	36.00
Shopping List	Progressive Software P.O. Box 273 Plymouth Meeting, PA 19462	Creates a list that can be saved and used to create a shopping list.	Apple; 16K	19.95
Supermarket Shopping Organizer--Grocery List	Computerized Management Systems 1039-S Cadiz Drive Simi, Calif 93065	Scan a file of 500 items selected by user. Will print a list organized by department.	Apple Printer needed	24.95

TITLE	DISTRIBUTOR	DESCRIPTION	MODEL	PRICE
The Menu	C & H Video 110 West Caracas Ave. Hershey, PA 17033	Plans menus and writes shopping lists. Stores 399 recipes.	Apple; 48K Printer needed	39.95
Watch Your Calories	Career Aids, Inc. 8950 Lurline Ave. Chatsworth, CA 91311	Helps students analyze caloric value of foods. Order # SB1038VM	TRS-80; 16K	19.95
Weight Control and Nutrition	Educational Audio Visuals Inc. Pleasantville, NY 10570	Assists in creating balanced diets to help improve fitness.	Texas Inst.	60.00
What Did You Eat Yesterday	Learning Seed 21250 Andover Kildeer, IL 60047	Diet analysis.	Apple II TRS-80	39.00

BIBLIOGRAPHY*

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Dillion, Nancy F. Computer software for home & home economics, apple edition. Strictly Software, 1982.

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* Sources also included many advertisement publications from a variety of companies selling computer software.

Strictly Software
4321 N 35th Street
Phoenix, Arizona 85018